

In the United States Patent and Trademark Office

Application No.: Not yet assigned

Filing Date:

August 21, 2003

Title: Low Speed Turbo EGR

Applicant: Steven Don Arnold

Attorney Docket No.: H0004511

Examiner: Not yet assigned

Art Unit: Not yet assigned

Petition to Make Special Under 37 C.F.R. 1.102(c)

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Hon. Commissioner,

This petition is filed pursuant to 37 C.F.R. 1.102(c) concurrently with the above referenced patent application as an invention that will materially enhance the quality of the environment and materially contribute to the conservation of energy resources.

The present invention relates to the field of internal combustion engine exhaust gas recirculation (EGR) for emissions improvement and increased operating efficiency, including increased fuel economy. EGR is a known method for reducing NOx emissions in internal combustion engines, particularly diesel engines. For effective use, an EGR system must overcome the adverse pressure gradient created by a positive pressure gradient across the engine which is typical of modern high efficiency diesel engines in at least a portion of their operating range. Various known approaches to implementing EGR suffer a fuel consumption penalty. The present invention provides an inventive intermediate pressure EGR system for an internal combustion engine, preferably a diesel

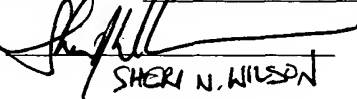
Certification under 37 C.F.R. §1.10

This correspondence is being filed by Express mail addressed to
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on Date: AUGUST 21, 2003

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By:


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engine, comprising a turbocharger including a compressor having more than one stage, and preferably having two stages. Unlike traditional high or low pressure EGR systems, the present invention provides not only NOx reduction, but also increased fuel economy under all load conditions. For these reasons, applicant respectfully petitions that this application be made special for advancement of examination.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Ephraim Starr', written over a horizontal line.

Date: August 21, 2003

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